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Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: Fri Oct 19 12:10:42 EDT 2007

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## Validated By CRFValidator v 1.0.3

Application No: 09925284 Version No: 7.0

Input Set:

Output Set:

**Started:** 2007-10-03 14:47:01.332

**Finished:** 2007-10-03 14:47:01.875

**Elapsed:** 0 hr(s) 0 min(s) 0 sec(s) 543 ms

Total Warnings: 6

Total Errors: 0

No. of SeqIDs Defined: 10

Actual SeqID Count: 10

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145 150
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	Ile	Gly	Ser	Суз	_		Phe	Asn	Asn			Ile	Leu	Ser	_
225	G1	77 -	T	77-7	230	G	G1	7	G1	235	7.1.	7	T	T	240
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Asp	Thr	Glu	Ser	Gly 325	Leu	Trp	Gln	Ser	Val	Ser	Cys	Glu	Ser	Gln 335	Gln
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Val	Trp	Thr		Thr	Asp	Thr	His		His	Val	Glv	Tro		Pro	Asn
	_	355	_		_		360	_				365			
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Ala	His	Leu	Lys	Càa	Lys	Ala	Phe	Gly	Ala	Asp	Leu	Ile	Ser	Met	His
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Ser	Leu	Ala	Asp	Val 405	Glu	Val	Val	Val	Thr 410	Lys	Leu	His	Asn	Gly 415	Asp
Val	Lys	Lys	Glu 420	Ile	Trp	Thr	Gly	Leu 425	Lys	Asn	Thr	Asn	Ser 430	Pro	Ala
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Glu	Asn	Glu	Pro	Ser	Val	Pro	Phe	Asn	Lys	Thr	Pro	Asn	Cys	Val	Ser
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Tyr 465	Leu	Gly	Lys	Leu	Gly 470	Gln	Trp	Lys	Val	Gln 475	Ser	Cys	Glu	Lys	Lys 480
Leu	Arg	Tyr	Val	Cys 485	Lys	Lys	Lys	Gly	Glu 490	Ile	Thr	Lys	Asp	Ala 495	Glu
Ser	Asp	T.v.e	T.011		Pro	Pro	Aan	Glu		Trn	T.ve	Ara	Hiq		Glu
DCI	1150	шур	500	Cyb	110	110	1150	505	Gry	ттр	шуы	1119	510	Gry	GIG
Thr	Cys	Tyr 515		Ile	Tyr	Glu	Lys 520		Ala	Pro	Phe	Gly 525		Asn	Cys
Asn	Leu		Ile	Thr	Ser	Arg 535		Glu	Gln	Glu	Phe 540		Asn	Tyr	Met
Mot	530	7 an	Tire	7 an	Twa		T 011	7 mar	Tug	Тил		Trn	Thr	C1,,	T 011
мет 545	Lys	ASN	т Хт.	ASP	ьуs 550	ser	ьeu	Arg	тЛя	1yr 555	rne	rrb	TIII.	СΤΆ	ьеи 560
	7 an	Dro	7) ara	Cor		C1,,	C1.,	Time	Cor		71.	77-7	71-	Cln	
	Asp			565	_			_	570					575	
Val	Lys	Gln	Ala 580	Val	Thr	Phe	Ser	Asn 585	Trp	Asn	Phe	Leu	Glu 590	Pro	Ala
Ser	Pro	Gly 595	Gly	Суз	Val	Ala	Met 600	Ser	Thr	Gly	Lys	Thr 605	Leu	Gly	Lys
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	610					615					620				
Lys	Val	Ser	Glu	Pro	Gln	Glu	Pro	Glu	Glu	Ala	Ala	Pro	Lys	Pro	Asp

625	Dago	Cira	Dage	<i>C</i> 1	630	Т 2020	1110	Tha	Dha	635 Dags	C 0 20	Com	Т о	C 0 70	640
Asp	LIO	СУБ	Pro	645	дтУ	ттЬ	птр	TIIT	650	LTO	26T	Set	ьeu	5er 655	СУБ
Tyr	Lys	Val	Phe		Ile	Glu	Arg	Ile		Arg	Lys	Arg	Asn		Glu
=	-		660				-	665		-	-	_	670	-	
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Asp	Leu	Gln	Gly	Ser 725	Trp	Gln	Trp	Ser	Asp 730	Arg	Thr	Pro	Val	Ser 735	Ala
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			740			_		745	_	_	_		750 -		_
Ala	Ala	Ile 755	Lys	Val	Leu	Asp	Val 760	Pro	Trp	Arg	Arg	Val 765	Trp	His	Leu
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_	Leu	Glu	Trp	Val	_	Gln	Ile	Pro	Lys	_	Ser	Thr	Pro	Gln	
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Ser	Arg	Gly 995	Glu	Gln	Asp	Phe	Ile 1000	Ile	Ser	Leu	Leu	Pro	Glu	Met	Glu
Ala	Ser		Trp	Ile	Glv	Leu			Thr	Ala	Tyr			Ile	Asn
	1010				x	1015	_	1			1020		9		~**
Arg	Trp	Thr	Asp	Asn	Arg	Glu	Leu	Thr	Tyr	Ser	Asn	Phe	His	Pro	Leu
1025	5				1030	)				103	5				1040
Leu	Val	Gly	Arg	Arg 1045		Ser	Ile	Pro	Thr 1050		Phe	Phe	Asp	Asp 105	
Ser	His	Phe	His	_	Ala	Leu	Ile	Leu 1065		Leu	Lys	Lys	Ser 1070		Leu
Thr	Gly	Thr	Trp		Phe	Thr	Ser			Glu	Arg	His			Ser
		107	5				1080	)				1085	5		

Leu Cys Gln Lys	_		Glu Asp	=	=	Glu Asn
1090		1095	7 7	1100		T]- C
Thr Ser Lys Thr	_	_	Asn Asn	_	гла тте	
1105	1110			1115		1120
Lys Pro Leu Thr	_	GIY AIA	_	_	мет гуз	=
	1125	m) 7	1130		-1 -1	1135
Met Arg Leu Val		Thr Asp	_	GIn GIn		
114			1145		115	
Val Gln Ala Thr	Leu Arg			Trp Ile		Ser Ser
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Gln Asp Asp Glu	Leu Asn	Phe Gly	Trp Ser	Asp Gly	Lys Arg	Leu Gln
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Trp Ile Pro Phe	Gln Asn	Ser Cys	Tyr Asn	Phe Met	Ile Thr	Asn Asn
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Lys Thr Ala Leu	_		Trp Arg	_	_	Thr Val
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1330 Lys Asn Gly Lys 1345 Ile Gln Ser Phe Ser Ile Ser Ala 138 Asn Gly Thr Leu 1395 Val Ile Gln Lys 1410 Gln Ser Gly Gly 1425 Phe Leu Glu Asp Leu Ser Ser His	Phe Leu . 1350 Asn Val 1365 Cys Lys 0 Pro Gln Lys Val Glu Leu . 1430 Ile Val . 1445 Asp Gly 0	1335 Ala Gly Ile Glu Ile Glu Phe Ile 1400 Thr Trp 1415 Ala Ser Asn Arg Ser Glu	Leu Ser  Glu Thr 1370 Met Val 1385 Pro Tyr  Tyr Glu  Val His  Asp Gly 1450 Ser Ser 1465 Gln Ser	1340 Thr Asp 1355 Leu His Asp Tyr Lys Asp Ala Leu 1420 Asn Pro 1435 Phe Pro Phe Glu	Gly Phe Phe Tyr Glu Asp 139 Gly Val 1405 Asn Ala Asn Gly Leu Trp Trp Ser 147	Trp Asp 1360 Gln His 1375 Lys His O Tyr Ser Cys Ser Lys Leu 1440 Val Gly 1455 Asp Gly O
1330 Lys Asn Gly Lys 1345 Ile Gln Ser Phe  Ser Ile Ser Ala	Phe Leu : 1350 Asn Val 1365 Cys Lys 0 Pro Gln Lys Val Glu Leu : 1430 Ile Val : 1445 Asp Gly 0 Tyr Val	1335 Ala Gly Ile Glu Ile Glu Phe Ile 1400 Thr Trp 1415 Ala Ser Asn Arg Ser Glu Pro Trp 1480	Leu Ser  Glu Thr 1370  Met Val 1385  Pro Tyr  Tyr Glu  Val His  Asp Gly 1450  Ser Ser 1465  Gln Ser	1340 Thr Asp 1355 Leu His Asp Tyr Lys Asp Ala Leu 1420 Asn Pro 1435 Phe Pro ) Phe Glu Leu Gln	Gly Phe Phe Tyr Glu Asp 1390 Gly Val 1405 Asn Ala Asn Gly Leu Trp Trp Ser 1470 Ser Pro 1485	Trp Asp 1360 Gln His 1375 Lys His O Tyr Ser  Cys Ser  Lys Leu 1440 Val Gly 1455 Asp Gly O Gly Asp
1330 Lys Asn Gly Lys 1345 Ile Gln Ser Phe  Ser Ile Ser Ala	Phe Leu : 1350 Asn Val 1365 Cys Lys 0 Pro Gln Lys Val Glu Leu : 1430 Ile Val : 1445 Asp Gly 0 Tyr Val	1335 Ala Gly Ile Glu Ile Glu Phe Ile 1400 Thr Trp 1415 Ala Ser Asn Arg Ser Glu Pro Trp 1480	Leu Ser  Glu Thr 1370  Met Val 1385  Pro Tyr  Tyr Glu  Val His  Asp Gly 1450  Ser Ser 1465  Gln Ser	1340 Thr Asp 1355 Leu His Asp Tyr Lys Asp Ala Leu 1420 Asn Pro 1435 Phe Pro ) Phe Glu Leu Gln	Gly Phe Phe Tyr Glu Asp 139 Gly Val 1405 Asn Ala Company Trp Ser 147 Ser Pro 1485 Glu Lys	Trp Asp 1360 Gln His 1375 Lys His O Tyr Ser  Cys Ser  Lys Leu 1440 Val Gly 1455 Asp Gly O Gly Asp
1330 Lys Asn Gly Lys 1345 Ile Gln Ser Phe  Ser Ile Ser Ala	Phe Leu : 1350 Asn Val : 1365 Cys Lys 0 Pro Gln Lys Val Glu Leu : 1430 Ile Val : 1445 Asp Gly 0 Tyr Val Tyr Pro	1335 Ala Gly Ile Glu Ile Glu Phe Ile 1400 Thr Trp 1415 Ala Ser Asn Arg Ser Glu Pro Trp 1480 Lys Gly 1495	Leu Ser  Glu Thr 1370 Met Val 1385 Pro Tyr Tyr Glu  Val His  Asp Gly 1450 Ser Ser 1465 Gln Ser	1340 Thr Asp 1355 Leu His Asp Tyr Lys Asp Ala Leu 1420 Asn Pro 1435 Phe Pro Phe Glu Leu Gln Arg Arg 1500	Gly Phe Phe Tyr Glu Asp 139 Gly Val 1405 Asn Ala Asn Gly Leu Trp Trp Ser 1476 Ser Pro 1485 Glu Lys	Trp Asp 1360 Gln His 1375 Lys His 0 Tyr Ser Cys Ser Lys Leu 1440 Val Gly 1455 Asp Gly 0 Gly Asp Cys Leu
1330 Lys Asn Gly Lys 1345 Ile Gln Ser Phe Ser Ile Ser Ala 138 Asn Gly Thr Leu 1395 Val Ile Gln Lys 1410 Gln Ser Gly Gly 1425 Phe Leu Glu Asp Leu Ser Ser His 146 Arg Ala Phe Asp 1475 Cys Val Val Leu 1490	Phe Leu : 1350 Asn Val : 1365 Cys Lys 0 Pro Gln Lys Val Glu Leu : 1430 Ile Val : 1445 Asp Gly 0 Tyr Val Tyr Pro	1335 Ala Gly Ile Glu Ile Glu Phe Ile 1400 Thr Trp 1415 Ala Ser Asn Arg Ser Glu Pro Trp 1480 Lys Gly 1495 Ile Cys	Leu Ser  Glu Thr 1370 Met Val 1385 Pro Tyr Tyr Glu  Val His  Asp Gly 1450 Ser Ser 1465 Gln Ser	1340 Thr Asp 1355 Leu His Asp Tyr Lys Asp Ala Leu 1420 Asn Pro 1435 Phe Pro Phe Glu Leu Gln Arg Arg 1500	Gly Phe Phe Tyr Glu Asp 139 Gly Val 1405 Asn Ala Asn Gly Leu Trp Trp Ser 1476 Ser Pro 1485 Glu Lys	Trp Asp 1360 Gln His 1375 Lys His 0 Tyr Ser Cys Ser Lys Leu 1440 Val Gly 1455 Asp Gly 0 Gly Asp Cys Leu
1330 Lys Asn Gly Lys 1345 Ile Gln Ser Phe  Ser Ile Ser Ala	Phe Leu : 1350 Asn Val 1365 Cys Lys 0 Pro Gln Lys Val Glu Leu : 1430 Ile Val : 1445 Asp Gly 0 Tyr Val Tyr Pro Gly Ala 1510	1335 Ala Gly Ile Glu Ile Glu Phe Ile 1400 Thr Trp 1415 Ala Ser Asn Arg Ser Glu Pro Trp 1480 Lys Gly 1495 Ile Cys	Leu Ser  Glu Thr	1340 Thr Asp 1355 Leu His Asp Tyr  Lys Asp Ala Leu 1420 Asn Pro 1435 Phe Pro ) Phe Glu  Leu Gln  Arg Arg 1500 Pro Thr 1515	Gly Phe Phe Tyr Glu Asp 1390 Gly Val 1405 Asn Ala Asn Gly Leu Trp Trp Ser 1470 Ser Pro 1485 Glu Lys Lys Asp	Trp Asp 1360 Gln His 1375 Lys His O Tyr Ser  Cys Ser  Lys Leu 1440 Val Gly 1455 Asp Gly O Gly Asp  Cys Leu Lys Leu Lys Lys 1520
1330 Lys Asn Gly Lys 1345 Ile Gln Ser Phe  Ser Ile Ser Ala	Phe Leu : 1350 Asn Val 1365 Cys Lys 0 Pro Gln Lys Val Glu Leu : 1430 Ile Val : 1445 Asp Gly 0 Tyr Val Tyr Pro Gly Ala 1510	1335 Ala Gly Ile Glu Ile Glu Phe Ile 1400 Thr Trp 1415 Ala Ser Asn Arg Ser Glu Pro Trp 1480 Lys Gly 1495 Ile Cys	Leu Ser  Glu Thr	1340 Thr Asp 1355 Leu His Asp Tyr Lys Asp Ala Leu 1420 Asn Pro 1435 Phe Pro O Phe Glu Leu Gln Arg Arg 1500 Pro Thr 1515 Pro Val	Gly Phe Phe Tyr Glu Asp 1390 Gly Val 1405 Asn Ala Asn Gly Leu Trp Trp Ser 1470 Ser Pro 1485 Glu Lys Lys Asp	Trp Asp 1360 Gln His 1375 Lys His O Tyr Ser  Cys Ser  Lys Leu 1440 Val Gly 1455 Asp Gly O Gly Asp  Cys Leu Lys Leu Lys Lys 1520
1330 Lys Asn Gly Lys 1345 Ile Gln Ser Phe  Ser Ile Ser Ala	Phe Leu : 1350 Asn Val : 1365 Cys Lys 0 Pro Gln Lys Val Glu Leu : 1430 Ile Val : 1445 Asp Gly 0 Tyr Val Tyr Pro Gly Ala : 1510 Val Lys : 1525	1335 Ala Gly Ile Glu Ile Glu Phe Ile 1400 Thr Trp 1415 Ala Ser Asn Arg Ser Glu Pro Trp 1480 Lys Gly 1495 Ile Cys Ser Ser	Leu Ser  Glu Thr 1370 Met Val 1385 Pro Tyr  Tyr Glu  Val His  Asp Gly 1450 Ser Ser 1465 Gln Ser  Ile Trp  Tyr Lys  Lys Cys 1530	1340 Thr Asp 1355 Leu His Asp Tyr Lys Asp Ala Leu 1420 Asn Pro 1435 Phe Pro Phe Glu Leu Gln Arg Arg 1500 Pro Thr 1515 Pro Val	Gly Phe Phe Tyr Glu Asp 139 Gly Val 1405 Asn Ala Asn Gly Leu Trp Trp Ser 147 Ser Pro 1485 Glu Lys Lys Asp Ala Lys	Trp Asp 1360 Gln His 1375 Lys His O Tyr Ser  Cys Ser  Lys Leu 1440 Val Gly 1455 Asp Gly O Gly Asp  Cys Leu  Lys Lys Lys Lys 1520 Arg Asp 1535

1540 1545 Val Leu His Ser Phe Ser Glu Ala Lys Gln Val Cys Gln Glu Leu Asp 1555 1560 1565 His Ser Ala Thr Val Val Thr Ile Ala Asp Glu Asn Glu Asn Lys Phe 1570 1575 1580 Val Ser Arg Leu Met Arg Glu Asn Tyr Asn Ile Thr Met Arg Val Trp 1585 1590 1595 1600 Leu Gly Leu Ser Gln His Ser Leu Asp Gln Ser Trp Ser Trp Leu Asp 1605 1610 1615 Gly Leu Asp Val Thr Phe Val Lys Trp Glu Asn Lys Thr Lys Asp Gly 1620 1625 1630 Asp Gly Lys Cys Ser Ile Leu Ile Ala Ser Asn Glu Thr Trp Arg Lys 1635 1640 1645 Val His Cys Ser Arg Gly Tyr Ala Arg Ala Val Cys Lys Ile Pro Leu 1650 1655 1660 Ser Pro Asp Tyr Thr Gly Ile Ala Ile Leu Phe Ala Val Leu Cys Leu 1665 1670 1675 1680 Leu Gly Leu Ile Ser Leu Ala Ile Trp Phe Leu Leu Gln Arg Ser His 1685 1690 1695

Ile Arg Trp Thr Gly Phe Ser Ser Val Arg Tyr Glu His Gly Thr Asn 1700 1705 1710

Glu Asp Glu Val Met Leu Pro Ser Phe His Asp 1715 1720